Atmospheric Radiation Measurement Program
www.arm.gov
ARM

April 2003

ARM Facilities Newsletter

ANL / ER / NL-03-04

Installation of New Extended Facility in Progress

In April 2002, the ARM extended facility near Seminole, Oklahoma, ceased operation after the leased land under it was sold to new owners. The facility's equipment was removed from the site and placed in storage while a search for a new location began. When a new site was found near Earlsboro, Oklahoma, the approval process for relocation was set in motion.

Extended facility sites are instrumented to collect data on solar radiation and its interaction with the ground, as well as basic meteorological variables such as temperature, wind speed and direction, and precipitation. Instruments at extended facilities include the solar infrared radiation station (SIRS), the multifilter rotating shadowband radiometer (MFRSR), the energy balance Bowen ratio (EBBR) station,

Figure 1. Work is progressing on installation of the new Earlsboro extended facility's instrument bases and its utility and communications connections. Instruments are expected to be deployed by the end of April 2003 (ARM photo).

ARM Facilities Newsletter is published by Argonne National Laboratory, a multiprogram laboratory operated by The University of Chicago under contract W-31-109-Eng-38 with the U.S. Department of Energy.

Technical Contact: James C. Liljegren
Phone: 630-252-9540
Email: jcliljegren@anl.gov
Editor: Donna J. Holdridge

the soil water and temperature system (SWATS), and the surface meteorological observation system (SMOS). Detailed information on the instruments is on the ARM instrument web page:

http://www.arm.gov/docs/instruments.html

Extended facilities are visited every two weeks by technicians who inspect, maintain, and repaired the instruments if necessary. Data from each system are monitored more frequently for accuracy and continuity by instrument mentors, who are scientists with expertise in an instrument's use and application. Data monitoring is done from the instrument mentor's home base.

Dan Nelson, the SGP facilities manager, is overseeing the complex effort of relocating the extended facility site. Concrete bases and piers to which instruments will be mounted, electrical conduits, and communications lines have been installed at the new site. The hope is that all instruments and data collection systems will be installed by the end of April and that the new site will be fully operational and collecting data continuously by May.

2003 ARM Science Team Meeting

The 13th ARM Science Team Meeting was held on March 31-April 4, 2003, in Broomfield, Colorado. This year's meeting had near-record attendance of more than 270 scientists (including 54 individuals from 20 foreign countries). Attendees participated in poster session and plenary groups for exchange of technical research findings over the past year. The annual Science Team Meeting provides a forum for assessing the implementation and operation of the ARM Program and its facilities and instrumentation as a whole.

The ARM Program serves nine U.S. Department of Energy laboratories, a number of private laboratories, more than 30 universities, and 21 international collaborations by providing an unmatched source of research data. The SGP CART site is an outdoor laboratory that can deploy guest-user instruments and can host intensive observation periods to gather dense data sets on particular research topics.